

CABENCH-TO-BEDSIDE ADMIN MODULE V1.0

Installation Guide

Document Revision History

Date	Version	Description
17 June 2008	1.0	Draft document
18 July 2008	1.0	Reviewed and verified



caBIG™ cancer Biomedical
Informatics Grid™

an initiative of the National Cancer Institute

This is a U.S. Government work.

July 18, 2008

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Chapter 1 Introduction

This document describes the process to install caB2B admin web module.

The **caB2B admin** is a web application which enables you to perform the following actions:

1. Define categories to be queried.
2. Load new models from caDSR.
3. Curate path between categories.
4. Define the service instances to be used.

This is a web module. caB2B user with administrative rights can log on to this module to provide caB2B client user with basic configuration. Admin module configures MySQL database used by caB2B server.

Chapter 2 References

Java- version 1.6.03

https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewProductDetail-Start?ProductRef=jdk-6u3-oth-JPR@CDS-CDS_Developer

caB2B G-Forge link

<https://gforge.nci.nih.gov/projects/cab2b/>

JBoss

http://sourceforge.net/project/showfiles.php?group_id=22866&package_id=16942&release_id=416591

MySQL download

<http://dev.mysql.com/downloads/mysql/4.1.html>

Ant 1.6.x

<http://archive.apache.org/dist/ant/binaries/>

Chapter 3 Installation

Prerequisites

1. JDK 1.6.03
2. JBoss 4.0.4.GA
3. MySQL 4.1.10
4. Ant 1.6.x

Note: JBoss and ANT installation should not contain spaces in their paths

How to install caB2B admin?

Verify required tools

Verify Java and Ant is installed on your machine. Refer to sections [Verify java installation](#) and [Verify ant installation](#). Verify that the MySQL database server is up and running.

Unzip **cab2bAdminInstaller.zip** in to a folder, say C:/cab2bAdmin/ (here after referred as **<home_dir>**).

Configure the following properties in **<home_dir>/conf/server.properties**

jboss.home	Set this to the directory where JBoss is installed. For example, jboss.home=D:/jboss-4.0.4.GA/
database.server.ip	IP address of the machine on which the MySQL database is installed. For example, database.server.ip=22.44.55.66
database.server.port	Port on which the MySQL database is deployed. For example, database.server.port=3306
database.name	Name of the MySQL database. For example, database.name=cab2bAdminDatabase Note: During the installation process this database will be created if it does not exist. If it is an existing database, then the install process will recreate the database.
database.username	User name to connect to the caB2B database. Note: This user must have delete and drop permissions in the caB2B database.
database.password	Password for the caB2BAdmin database user.
indexurls	Index service url used to configure service urls.
cadsrurl	caDSR service url used to fetch and load models.

Creating database

Administrator configures the caB2B server database. Thus it is assumed that database already exists. If the database is not present, you can use caB2B installer to create database schema. Refer to **Run command “ant create.database”** topic in caB2B_Installation_Guide.

Note: By default admin module password is set to “admin123”. In case you wish to change this password, run following database script by replacing **PASSWD** by the desired password.

```
UPDATE cab2b_user
SET password = PASSWD
WHERE name = 'Admin';
```

Run command “ant deploy.jboss”

1. Open command prompt and go to directory <home_dir>/build
2. Run command “ant deploy.jboss”
3. This will invoke Ant target to install caB2B Admin module. This takes several minutes depending on the configurations. During the process, following steps are executed
 - a. Compiling the source
 - b. Creating a war file.
 - c. Deploying the application to JBoss

Start JBoss Application Server

- We recommend 1GB memory for cab2b-server. This can be done by setting - **Xms512m –Xmx1024m** java options in run.bat / run.sh
- If your application server is running behind the firewall, you need to modify run.bat / run.sh to provide proxy authentication. This can be done by setting following java options

-Dhttp.proxyHost=your.proxy.host

-Dhttp.proxyPort=your.proxy.port

-Dhttp.nonProxyHosts=list of local IPs

-Dhttp.proxyUser=proxy.user.name

-Dhttp.proxyPassword=password

For public machines these settings are not needed.

Note: To support jdk1.5 features in jsp pages, you have to make a change in JBOSS_HOME/server/default/deploy/jbossweb-tomcat55.sar/conf/web.xml.

Following tag is commented out by default. You have to uncomment it.

```
<init-param>
  <param-name>compilerSourceVM</param-name>
  <param-value>1.5</param-value>
</init-param>
```

Once the “ant deploy.jboss” command is successfully executed, start the Jboss by using the <Jboss_home>/bin/run.bat.

Important note:

There are models registered in caDSR for which there are no url entries in index service. In such case, you need to manually add service url to database. You can insert them using following script by replacing MODEL_NAME and URL by appropriate values.

```
insert into cab2b_service_url(ENTITY_GROUP_NAME, URL,
ADMIN_DEFINED) values('MODEL_NAME', 'URL', 1);
insert into cab2b_user_url_mapping(SERVICE_URL_ID, USER_ID)
(select max(url_id), 1 from cab2b_service_url);
```

To find MODEL_NAME, you can use

```
select LONG_NAME from dyextn_entity_group;
```

You need to restart jboss once you are done with admin tasks, so that it will be reflected into caB2B

Chapter 4 Appendix

Verify ant installation

Make sure that you have Apache-ant-1.6.x and its “bin” directory is in PATH. To verify it run command **ant** from any directory and it should not report it as invalid command. If you don't have ANT, it can be downloaded from <http://archive.apache.org/dist/ant/binaries/>

Verify java installation

You need to have java 1.6.03 on your system. To check java, run command **java –version** from any directory and its response should be like *java version "1.6.0_03"...* JDK-JRE can be downloaded from <http://java.sun.com/>